## THE

## Botanical Magazine; O R,

## Flower-Garden Difplayed:

IN WHICH

The moft Ornamental Foreign Plants, cultivated in the Open Ground, the Green-Houfe, and the Stove, are accurately reprefented in their natural Colours.
TO WHICH ARE ADDED,

Their Names, Clafs , Order, Generic and Specific Chara\&ters, according to the celebrated Linneus; their Places of Growth, and Times of Flowering:
together with
THE MOST APPROVED METHODS OF CULTURE.
A W O R K

Intended for the Ufe of fuch Ladies, Gentlemen, and Gardeners, as wifh to become fcientifically acquainted with the Plants they cultivate.

## By $\quad$ ILLIAM CURTIS,

Author of the Flora Londinensis.

> V O L. XIV.
"s No tree that is of count in greenewood growes,
"From loweft Juniper to Cedartall;
"No flow:e in field, that daintie odour throwes,
"And dockes his branch wih bloffones over all,
"But there was planted or grew naturall :"
Spenser。

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## [ 469 ]

## Platylobium Formosum. Large. Flowered Flat-Pea.

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## Clafs and Order.

Diadelphia Decandria.
Generic Character.
Cal. campanulatus, quinquefidus, laciniis duabus fupremis maximis, obtufis. Legumen pedicellatum compreffum, dorfo alatum, polyfpermum.

> Specific Cbaracter and Synonyms.

PLATYLOBIUM formofum foliis cordato-ovatis, germine pilofo. Smith Linn. Tranf. v. 2. 350. Bot. New Holl. tab. 6. Cbeilococca apocynifolia. Salijb. Prod. 412.

All the plants of this family as yet known are natives of New Holland; the genus derives its name from the breadth of its pod or feed-veffel, and was eftablifhed by Dr. Smith, in the fecond volume of the Tranfactions of the Linnean Society, where the prefent fpecies, the only one then known, is defcribed under the name of Platylobium formofum, or Orange Flat$P e a$; a figure of it has been fince given by the fame author, in the fecond number of a work, entitled The Zoology and Botany of New Holland.

The feeds of this plant having been among the firft of thofe imported from Botany-Bay, feedlings have been raifed, and the plants have grown up and flowered in moft collections of greenhoufe plants about town ; an opportunity has been thus afforded of afcertaining its beauty, and it muft be confeffed there are few papilionaceous flowers more handfome, the buds in particular are inexpreffibly rich in colour, thefe are produced from June to Auguft, but are rarely fucceeded by ripe feeds in this country.

In raifing this fecies, recourfe is generally had to foreign feeds, for cuttings are not eafily ftruck; great difficulty alfo attends the rearing the feedlings, as they are very apt to go off when young, when they advance in fize they generally grow more freely; we have obferved the plant to fucceed very well with fome, while others fcarcely have been able to keep it alive.


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## [ 470 ]

## Trillium Erectum. Upright Trillium.



> Clafs and Order.

Hexandria Trigynia.
Generic Cbaratier.
Cal. 3-phyllus. Cor. 3-petala. Bacca trilocularis.
Specific Charaiter and Synonyms.
TRILLIUM crectum flore pedunculato erecto. Linn. Syf. Veg. ed. 14. Murr. p. 349. Sp. Pl.ed. 2. p. 484.
SOLANUM triphyllon brafilianum. Bauh. Pin. 167. SOLANUM triphyllum canadenfe. Corn. Can. 166. t. 167. SOLANO congener triphyllum canadenfe. Morif. bift. 3. p. 532.f. $13 \cdot$ t. 3.f. $7 \cdot$

Of this genus only three fecies have as yet been introduced into our gardens, viz. Seffle, cernuum, and ercitum, all natives of North-America, all collected by Mr. Mileer, and defcribed in his dictionary: they are rare plants in this country, and will continue to be fo, as they require much attention to their culture, and admit of but little increafe from their roots; the $\mathcal{T} r$. Selfile, already figured in the Magazine, is the moft common, the cornuum next, and the prefent fpecies the moft rare, which, though not mentioned in the Hort. Kew. we have feen in the collection at Kew.

Cornutus gives a good figure of it, which is copied in Morison.

It is a hardy, perennial, herbaceous plant, growing to the height of about nine inches, producing its flowers in May; it requires to be planted in a fhady and fomewhat moift fituation, either in peat earth, pure light loam, or a mixture of both.

The roots of thefe plants, which are of the tuberous kind, might no doubt be raifed with care from foreign feeds, but the procefs would be tedious, and the plants have fcarcely fufficient beauty to compenfate for the trouble.

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## [471]

Erica Mediterranea. Mediterranean Heath.



Clafs and Order.
Octandria Monogynia.

## Generic Charazter.

Cal. 4-phyllus. Cor. 4 -fida. Filamenta receptaculo inferta, Antbere apice 2 -fidx pertufx. Capf. 4 -locularis, 4 -valvis, polyfperma.

## Specific Cbarazter and Synonyms.

ERICA mediterranca antheris muticis exfertis, corollis ovatis, fylo exferto, foliis quaternis patentibus, floribus fparfis. Linn. Syf. Veg. ed. 14. Murr. p. 370. Ait. Kew. v. 2. p. 24. Linn. Mant. p. 229.
ERICA maxima purpurafcenslongioribusfoliis. Baub. Pin. $485^{\circ}$ ERICA foliis corios quaternis, flore purpuralcente. Baub. bijf.

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\text { 1. p. } 356 .
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ERICA corios folio. 11. Cluf. bif. 1. p. 42 .
Though a native of the more fouthern parts of Europe, this fpecies of Heath was unknown in our gardens till introduced by Mr. Brooks*, fo lately as about 1765 ; now it is one of the moft common, and will long continue to be one of the moft defirable ; in a few years it acquires the height of four or fix feet, is very upright and handfome in its growth, and from March to May its branches are loaded with a profufion of lively bloffoms.

In our account of Erica herbacea, page 11, we expreffed fome doubts whether it and the mediterranea might not be one and the fame fpecies, as they accorded in many refpects; from examining them more attentively, we are fatisfied that they are perfectly diftinct: the berbacea, if left to itfelf, is low and fpreading, the mediterranea tall and upright; the flowers in the mediterranea are fhorter and more ovate, and have a degree of fragrance wanting in thofe of the berbacea; the filaments do not project fo far, but the ftyle farther; the berbacea bloffoms at leaft a month earlier than the mediterranea; to thefe differences we may add, that the berbacea is perfectly hardy, while the mediterranea is liable to be killed in fevere feafons, and is therefore ufually kept in the greenhoule.

This fpecies is eafily ftruck from cuttings and eafily preferved.

* Hort. Kew.



## [472]

## Aloë Perfoliata, var. Succotrina. Succotrine Aloe.


Clafs and Order.
Hexandria Monogynia。
Generic CbaraEter.
Cor. erecta, ore patulo, fundo nectarifero. Filam. receptaculo interta.

## Specific Cbaracter and Synonyms.

ALOË perfoliata foliis caulinis dentatis amplexicaulibus vagi:antibus, floribus corymbofis cernuis pedunculatis fubcylindricis, var. © Succotrina. Ait. Kew.v.1. p. 466.
ALOË vera foliis longiffimis et anguftiffimis marginibus fpinoifs, floribus ipicatis. Mill. Diet.

The figure here given was drawn in January 1799, from a plant in full bloom in the dry ftove of the Apothecaties Garden at Chelfea; Mr. Fairbaikn informs me that it flowers regularly every year : the plant itfelf, fuppofed to be fifty years old, has a ftem the thicknefs of one's arm, naked for the fpace of about four feet from the ground, then dividing into feveral large heads, formed of the leaves growing in clutters, from the centre of which arife the flowering-ftems, two feet or more in length, producing fpikes of flowers frequently much longer than thofe reprefented on the plate; thefe before they open are upright, when fully blown they hang down, and when out of bloom they turn upwards.

This undoubtedly is the Aloë vera of Miller, and the perfoliata var. fuccotrina of Mr. Aiton, that which produces the Succotrine Aloes of the fhops, and is faid to grow in the Ifland of Zocotra or Socotora, in the Straits of Babelmandel ; it is therefore highly interefting as a medicinal plant, and very defirable as an ornamental one.

Is propagated by offsets, which it does not produce in any great plenty, and to have it in perfection, it mult be treated as a dry-ftove plant.



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## [ 473 ]

## Plinia Pedunculata. Pedunculated

## Plinia.



## Clafs and Order.

## Icosandria Monogynia.

## Generic Cbaracter.

Cal. 4. f. 5-partitus. Pctala 4-5. Drupa fupera, fulcata.
Specific Character and Synonyms.
PLINIA pedunculata floribus tetrapetalis pedunculatis: ftaminibus receptaculo infertis. Linn. Mant. p. 243.
PLINIA pedunculata floribus pedunculatis polyandris. Linn. Suppl.253. Ait. Kerv.v. 2. p. 166.
MYRTUS brafiliana. Sp. Pl. 674.
EUGENIA uniflora. Sp. Pl. 673.
PHILADELPHUS? arborefcens foliis myrtinis, nitidis oppofitis, ramulis gracilibus, pedunculis bipartitis alaribus. Brown Fam. 240. The Silver Tree.

The Plinia pedunculata, in its foliage and flowers, bears a great refemblance to fome varieties of the Myrtle, of which genus Linn eus, following others, at firft made it a fpecies; on this account it may be regarded, in a certain degree, as an ornamental plant, it is moreover a very rare one: its flowers yield a confiderable fragrance, much like that of the Orange bloffom.

It is a native of the Brazils, and alfo of Jamaica, according to Dr. Brown, and others: was cultivated here by Mr. Miller, in 1759.

Our drawing was made January 18, 1799, from a plant in the tan ftove of the Apothecaries Garden at Chelfea, which has been there a great number of years, and is now become a fmall tree, covered every year with a profufion of bloffoms, which in fome feafons have been followed by fruit.

The branches of this tree are flender, and covered with a light-coloured bark: the leaves ovate, oppofite, firm, gloffy, entire
entire, fomewhat contracted near the point, which is obtufe, ftanding on fhort foot-ftalks, and turning black: the flowers are placed on large footftalks, which ufually come out in pairs: the Calyx is deeply divided into four fegments, which quickly turn back: Petals four, white, fcarce perceptibly edged with hairs, turning back with the calyx, and quickly falling: Stamina numerous, inferted into the bafe of the calyx, which forms a kind of fquare receptacle; thefe alfo foon fall off, leaving the calyx and ftyle fanding: Germen fmall, ufually imperfect.

Dr. Brown, in his Hiftory of Jamaica, fays," this little " tree is frequent in the red hills, and remarkable for its " flender branches and myrtle leaves; it is now commonly " called Red-wood by the negroes, and is looked upon as a " good timber wood, but it feldom grows above four or five " inches in diameter."


## [474]

Rhodora Canadensis. Canadian Rhodora.


Clafs and Order.
Decandria Monogynia.

Generic Cbaraczer.
Cal. 5 -dentatus. Cor. 3-petala. Stam. declinata. Cap. 5 -locularis. Specific Character and Synonyms.

RHODORA canadenfis. Limn. Sp. Pl.561. Ait. Kew. v. 2. p. 66. L'Herit. Stirp. nov. t. 68. Cbamarhododendros. Dubam. Sem. app. 10. t. 27.f. 2.

RHODODENDRUM Rbodora, corollis tripetalis. Linn. Syf. Nat. ed. 13. Gmel. p. 694.

The Canadian Rhodora is a hardy deciduous American fhrub, of low growth, and confiderable beauty, and the more defirable from the earlinefs of its flowering, which occurs before the foliage is fully expanded; the bloffoms are very liable to be injured by the cutting eafterly winds which fometimes prevail in April, the ufual time of their appearance; it bears gentle forcing remarkably well, and thus may be had to flower in great perfection.

It requires to be planted in light bog earth, in which it is freely propagated by layers.

Is a native of North-America, and was introduced in 1767 , by Sir Joseph Banks, Bart.

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## [ 475 ]

## Pultenea Stipularis. Scaly Pultenea.



Clafs and Order.
Decandria Monogynia.

## Generic CbaraEter.

Cal. quinquedentatus, utrinque appendiculatus. Cor. papilionacea, alis vexillo brevioribus. Legumen uniloculare difpermum.

> Specific CharaEter.

PULTEN EA fipularis foliis linearibus mucronulatis fubciliatis, Ripulis folitariis binerviis laceris. Smith Bot. New-Holland, t. 35•

The name of Pultencea has been given to this genus by Dr. I. E. Smith, in honour of Wm. Pulteney, M. D. of Blandford in Dorfethire, whofe various writings have fo effentially contributed to the introduction and eftablifhment of Linnean Botany in this country, and to the promotion of the ufeful arts connected with Botany, more efpecially Agriculture. It takes the name of fipularis, from its ftalk being covered with fcale-like ftipulæ.

Seeds of this fpecies having been introduced to this country with fome of the firft productions of New-Holland, the plant has flowered in feveral collections near town; we firft faw it at Mr, Barr's, Nurferyman, Ball's-Pond, near Newington-Green. It is but feldom, however, that this fpecies can be brought to bloffom, or even be kept alive here for any length of time, if treated in the way that greenhoufe plants ufually are ; poffibly it would fucceed better with a warmer regimen.

It flowers in April and May, and is to be raifed only from imported feed.


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# Indigofera Psoraloides. Long-Spiked 

 Indigo.

Clafs and Order.
Diadelphia Decandria.

Generic Cbarazter.
Cal. patens. Cor. carina utrinque calcari fubulato patulo. Lee gunen lineare.

## Specific Cbarazter and Synonyms.

INDIGOFERA pforaloides foliis ternatis lanceolatis, racemis longiffimis, leguminibus cernuis. Linn. Syj. Veg. ed. 14. Murr. p. 677. Ail. Kewo. v. 3. p. 67.

CYTYSUS pjoraloides. Linn. Sp. Pl. 1043. CYTISUS africanus. Riv. Tetr. 71. f. 135 .
TRIFOLIUM atbiopicunn ex alis ficatum. Pluk. Pbyt. 320. f. 3 .

The plant here figured is the true Indigof. pforaloides of Linneus, a native of the Cape, and cultivated by Mr. MilLer, in 1758 ; there is another fpecies fomewhat fumilar to it, of much larger growth, and more recently introduced, frequently fold for it in the nurferies about town.

Though cultivated fo long fince in this country, the plant is far from common ; it is of fmall growth: its flowers, produced from July to September, are of a lively purple colour, and ufually fucceeded by feeds, whereby the plant is increafed, as alfo by cuttings.

Such as wifh to fee a minute defcription of it, may confule Murray's, viz. the 14 th edit. of the Sylt. Veg. Limn.


## [477]

## Pelargonium Crassicaule. Thick. Stalked Craness-Bill.


Clafs and Order.
Monadelphia Heptandria。

## Generic Charazker:

Cal. 5-partitus: lacinia fuprema definente in tubulum capil. larem nectariferum fecus pedunculum decurrentem. Cor. 5petala irregularis. Filam. 10 inæqualia quorum 3 (raro 5) caftrata. Fructus 5 -coccus, roftratus: roftra fpiralia introrfum barbata.

## Specific CharaEter and Synonym.

PELARGONIUM craficaule umbellis multifloris, foliis reniformibus obacuminatis, caule carnofo ramofo lævi. L'Herit. Geran. n. 77. t. 26. Ait. Kerv. v. 2. p. 428.

Amidft that variety of appearance obfervable in the plants of this extenfive family, feveral are diftinguifhed by having ftalks remarkably thick, and flefhy; from which circumftance the prefent fpecies has been named by Monf. L'Heritier, the firlt defcriber of it, crafficaule; it is not lefs obvioufly diftinguifhed by its fingularly fhaped plaited leaves of a filvery hue; its bloffoms are white, with a few minute purple dots at the bafe of the petals, and, in the original fpecies, not very beautiful, but in the variety here figured, Itrikingly fo; for the petals are not only of a confiderable fize, but on the middle of each there is a fot of the richeft purple, which appearing on a ground of the pureft white, produces the fineft imaginable effect.

The Pelargonium crafficaule was firt difcovered by Mr. Ant. Hove, on the fouth-weft coalt of Africa, and was introduced to the Royal Garden at Kew* in 1786; the variety here figured was firlt poffeffed by Meffrs. Grimwood and Co. Kenfington.

It requires a drier and warmer fituation than the greenhoufe ufually affords; flowers in June and July, is of flow growth, and propagated by cuttings, but with difficulty ; is ravely ripens its feeds, and if it were raifed from them, the fame beautiful variety might not be produced.
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## Phlomis Leonurus. Lion's-Tail Phlomis.


Clafs and Order.
Didynamia Gymnospermia.

## Generic Charazter.

Cal. angulatus. Cor. labium fuperius incumbens compreffum villofum.

> Specific Cbaracter and Synonyms.

PHLOMIS Leonurus foliis lanceolatis ferratis calycibus decagonis decemdentatis muticis, caule fruticofo. Linn. Syj. Veg. ed. 14. Murr. p. 540. Mant. 412. Ait. Kew. v. 2. p. 309.

STACHYS africana frutefcens angutifolia flore longiffimo phœniceo Leonurus dicta. Morif. Hif. 3. p. 383. f. 11. t. s. f. 17.

LEONURUS Capitis bonæ fpei. Breyn Cent. 171. t. 86. LEONURUS africana. Mill. Dict.

Descr. Rifes with a flrubby falk feven or eight feet high, fending out feveral four-cornered branches garnifhed with oblong narrow leaves, acutely indented on their edges, hairy on their upper, and veined on their under fide, ftanding oppofite; the flowers are produced in whorls, each of the branches having two or three of thefe whorls toward their ends; they are of the labiate kind, fhaped fomewhat like thofe of the deadnettle, but are much longer and covered with fhort hairs; they are of a golden fcarlet colour, fo make a fine appearance: the flowers commonly appear in October and November, and fometimes continue till the middle of December, but are not fucceeded by feeds here.

Is propagated by cuttings, which if planted the beginning of July, after the plants have been expofed to the open air long enough to harden, will take root very freely; when they have taken root, each cutting is to be planted in a feparate pot filled with foft loamy earth and treated as a greenhoufe plant, taking care to give it plenty of water in dry weather. Mill. Diet.

It is a native of the Cape and other parts of Africa; was cultivated in Chelfea garden in 1712. Ait Kew.

Linneus remarks in his Mantifu, that it is the moft fhewy of the genus.
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# [479] <br> <br> Geropogon Glabrum. Smooth Gero <br> <br> Geropogon Glabrum. Smooth Geropogon, or Old-Man's-Beard. 

pogon, or Old-Man's-Beard.}



Clafs and Order.
Syngenestia Polygamia Equalis.

Generic Cbaraīcr.
Recept. fetofo-paleaceum. Cal. fimplex. Sem. difci pappo plumofo ; radiii 5 -ariftato.

## Specijic Cbaracier and Synonyms.

GEROPOGON glabrum foliis glabris. Linn. Sp. Pl. cd. 2. p. 1109. Ait. Kerw. v. 3. p. 110.

TRAGOPOGON gramineo folio, glabrum, flore dilute incarnato. Raii Suppl. 149.

Mof Botanits have feen, and are acquainted with, the Tragopogon, few have had an opportunity of oblerving the Geropogon, which is here introduced more on account of its being a rare and curious than an ornamental plant.

It is an annual, rifing with a fmooth ftem and leaves to about the height of a foot, its flowers are flefh-coloured, and expand only when the fun fhines on them; they are quickly followed by feeds, deferving of notice for their ftructure, and as forming the chief diftinction betwixt it and the Tragopogon.

Is a native of Italy, flowers in July and Auguft, and was cultivated by Mr. Miller in 1759. Ait. Kere.

No difficulty attends its culture; its feeds, which muft be timely gathered when ripe, flould be fown in the fpring where it is intended that the plants fhall flower.



# Erica Pubescens. Downy-Flowered 

Heath.

Clafs and Order.
Octandria Monogynia.

## Generic Charazter.

Cal. 4 -phyllus. Cor. 4 -fida. Filamenta receptaculo inferta. Antbere apice bifidæ pertufæ. Capf. 4 -locularis, 4 -valvis, polyfperma.

## Specific Charatter and Synonyms.

ERICA pubefcens antheris bifidis inclufis, corollis fubovatis pubefcentibus, foliis quaternis linearibus hifpidis. Linn. Sp. Pl. ed. 2. p. 506.
ERICA pubefcens antheris ariftatis, corollis ovatis, fylo inclufo, foliis quaternis fcabris, floribus feffilibus lateralibus. Linn. Syy. Veg. Murr. ed. 14. p. 365 .
ERICA pubefcens ariftata foliis ternis quaternifque linearibus fcabris floribus umbellatis villofis. Thunb. Prodr. p. 73 .

There are two Heaths very generally cultivated in the nurferies about town, agreeing in many refpects, but differing in fize and hairinefs, which have been regarded as varieties of each other and called by wrong and inexpreffive names; to us they appear, on an accurate examination, to be diftinct fpecies : the better to elucidate them, we have figured and defcribed them both in the fame number, regarding the fmaller one as the pubefcens of Linneus, its hairinefs being of the flighter kind, the other as a diftinct fpecies, under the name of birtiflora, from the fuperior roughnefs of the hairs on its bloffoms; the Linnean defcription will indeed apply to either.

The birtiflora is much the largeft plant, growing ufually to twice the fize of the other, and is as much diftinguifhed by its bufhy as the pubefcens is by its twiggy appearance; the birtiflora is in all its parts more ftrongly haired, both in ftalks, leaves, and flowers; the form of the leaves is fomewhat alike in both, convex above and concave beneath; but in the pubefcens the leaves are narrower, the edges being rolled further back, fo as to make the cavity or concave part almof linear, and to form a fort of folium canaliculatum; there is not much difference

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# [481] <br> Erica Hirtiflora. Rough-Flowered 

Heath.

Clafs and Order.
Octandria Monogynia.
Generic Cbarazter.
Cal. 4 -phyllus. Cor. 4 -fida. Filamenta receptaculo inferta. Antbere apice bifidæ pertufé. Capf. 4-locularis, 4 -valvis, polyfperma.

Spccific Character.

ERICA birtifora antheris bifidis inclufis, corollis fubovatis hirtis, foliis quaternis linearibus hifpidis, marginibus ciliatis.
in the general hairinefs of the leaves, excepting that the hairs in the birtiflora are ftronger and more numerous, while in the pubefcens they form more of a tuft at the extremity; but there is a very curious and ftriking difference in the hairs on the underfide of the leaves, in the birtiflora the edges are ciliated or fringed with a row of finer hairs, pointing inwards, which are altogether wanting or fcarcely vifible in pubefcens; there is not much difference in the fructification, the flowers of biriffora are at leaft one-fourth larger than in thofe of pubefcens, and the horns of the antheræ are more ftrongly haired: the glands at the bafe of the ftamina, of a reddifh colour, are very vifible in the pubefcens.

Both thefe fpecies, natives of the Cape and recently introduced, flower from the autumnal to the fpring months, and contribute more than almoft any two other Heaths to enliven the greenhoufe during the winter half-year.

The pubefcens in particular is eafily propagated by cuttings, and may be kept in a well-fecured frame; the more air is admitted to it in fuitable weather, the healthier will be the plant, and the more vivid the colour of its flowers.

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## [482]

## Crotalaria Triflora. Three-Flower’d

Crotalaria。

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## Clafs and Order.

## Diadelphia Decandria.

Generic CharaEter.
Legumen turgidum inflatum pedicellatum. Filamenta conrata cum fiffura dorfali.

## Specific Cbaracler.

CROTALARIA trifora foliis fimplicibus ovatis fefflibus glabris, ramis angulatis, pedunculis ternis lateralibus unifloris. Linn. Sp. Pl. p. 1004. Mant. 440. Berg. Cap. 193. Ait. Kerv. v. 3. 19. Syjt. Veg. ed. 14. Murr. p. 649.

This very elegant fpecies of Crotalaria is a native of the Cape, defcribed by Bergius in his Pl. Capenfes; by LinN eus in the fecond edition of the Sp. Pl. and to be found in the third volume of the Hort. Kere. to which garden Mr. Aiton informs us that it was introduced by Mr. Masson in 1786.

It is a biennial greenhoufe plant, rifing to the height of three or four feet, with a ftrong and for the moft part unbranched ftem, ufually naked in its lower part; its leaves are large, uncommonly handfome when the plant is young, becoming more glaucous as it advances, and acquiring a fomewhat rough furface ; its flowers, of a bright yellow colour, are produced in Augult and September, on the fummit of the ftem, they ftand fingly on peduncles, which grow three together in the alx of the leaves, and are generally fucceeded by feed-veffels containing for the moft part one feed only in each; if the feafon be favourable, thefe ripen in the open air, and by thefe the plant is raifed without difficulty: as the flowers go off, both calyx and corollæ change to a dark brown colour, which in a flight degree disfigures the plant: to fecure the ripening of the feed, it will be moft prudent to fet one or two of the forwardeft plants in the greenhoufe.

Mr. Andrews has lately publifhed this plant, under the name of Borbonia cordata, referring to the Species Plantar. of Linneus for defcription and fynonyms, with none of which does it in the leaft accord (fee below); had Mr. Andrews made it a new fpecies of Borbonia, he might perhaps have been juftified from the ftructure of the feed-veffel, which it does not appear he had feen when the plant was drawn.

BORBONIA cordata foliis cordatis multinerviis integerrimis. Linn. Sp. Pl.
GENISTA africana frutefcens rufci foliis nervofis fl. luteo. Scb. Thef. 1. p. 38.t. 24.f. 3.
PLANTA leguminofa æthiopica foliis rufci. Breyn. cent.t.28.


# Hebenstretia Dentata. Toothed Hebenstretia. 



## Clafs and Order.

Didynamia Angióspermia.

## Generic Cbaracier.

Cal. 2-emarginatus, fubtus fiffus. Cor. 1 -labiata lab. adfcendente ${ }_{2}$ 4-fido. Capj. 2 -fperma. Stanı. margini limbi corollæ inferta.

Specific Cbaracter and Synonyms.
HEBENSTRETIA dentata foliis linearibus dentatis, fpicis lævibus. Linn. Syj. Veg. 570. Ait. Kew. v. 2. $p .35^{6}$.

VALERIANELLA africana, foliis anguftis, flore macula rubicante notato. Comm. Hort. 2. p. 247. t. 10 g .

VALERIANOIDES flore monopetalo, femine unico oblongo. Raii Suppl. 245.
PEDICULARIS foliis anguftiffimis dentatis, floribus fpicatis. Burm. afric. 114. t. $4^{2}$. f. 2.

To this genus Linneus gave the name of Hebenftetia, in honour of Joh. Ernst Hebenstreit, Profeffor of Medicine at Leipfic, who travelled into Africa, and publifhed Definitiones Plantarum in 1731.

The prefent fpecies, a native of the Cape, and introduced in $\mathbf{1 7 7 0}$ by Monf. Richard, is now very generally met with in our greenhoufe collections; it accords but indifferently with the name of dentata, the leaves being for the moft part fo flightly toothed, that the indentations are fcarcely difcernible; it appears to vary in this refpect, and perhaps runs into the integrifolia.

It is fingular and pretty, but not fhewy; produces its fpikes of flowers from February to November, fo that it is in bloom
the greateft part of the year: it is ufually increafed by cuttings, and is very liable to be loft, hence it becomes neceffary to have reveral pots of it in different fituations.

Linneus tells us, that the flowers in the morning are without fcent, at noon they are ftinking and naufeous, in the evening ambrofial like the oriental hyacinth: having neglected to pay due attention to this circumftance, we can neither confirm nor contradict it, but we fufpect that the different odours it is faid thus to diffufe are not very powerful. We take this opportunity of mentioning a fact relative to the Manulea tomentofa, which we had not difcovered when we figured that plant; its flowers, which in the day-time have very little fcent, late in the evening give forth a moft penetrating and unpleafant one, fo as to make a fmall greenhoufe highly difagreeable.


## [484]

## Erica Ciliaris. Ciliated Heath.


Clafs and Order. Octandria Monogynia. Generic Characler.
Cal. 4-phyllus. Cor. 4 -fida. Filamenta receptaculo inferta. Anthere apice ${ }_{2}$-fidæ, pertuæ. Capf. 4 -locularis, 4 -valvis, polyfperma.

## Specific Charaeter and Synonyms.

ERICA ciliaris antheris muticis inclufis, corollis ovatis groffis, fylo exferto, foliis ternis, racemis fecundis. Linn. Syf. Veg.ed. 14. Murr. p. 368. Ait. Hort. Kew. v. 2. p. 20.

ERICA ciliaris foliis ovatis ciliatis, floribus axillaribus campanulatis: calicibus ciliatis. Linn. Syj. Nat. ed. 13. Ganel. p. 623 .
ERICA foliis ovatis ciliatis ternis, corollis ovatis apice tubulofis irregularibus verticillato-racemofis. Laff: it. $13^{8 .}$ ERICA hirfuta anglica. Baub. Pin. 602. ERICA xii. Cluf. bif. 1. p. 46.

The name of ciliaris has been given to this fpecies of Erica, from the leaves being ftrongly edged with hairs ; this circumflance, undoubtedly, gives a flriking character to the plant; there are other fpecies, however, to which the fame term would apply-with equal propriety; but we muft not be too nice on fuch points, provided the name be not bad in itfelf: the irregularity of the flower, as noticed by Loefling, vid. Synon. forms a more remarkable trait.

This fpecies, a native of Spain and Portugal, and therefore hardy enough to bear the open air of this country in mild winters, was introduced, according to Mr. Aiton, about the year 1773 ; it grows to the height of feveral feet, and, if judicioufly treated, produces abundance of large purple flowers from July to September.

Though it is ufual to plant this fpecies in bog earth in the open border, to guard againft accidents, it will be proper to keep a few of them in pots, and fet them in the greenhoufe during winter.

It is a plant of ready growth, and ftrikes readily from cuttings.
C. BAUHiN, mittakenly, calls it anglica, which has given rife to the idea of its being an Englifh plant, but it is not.

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## [ 485 ]

## Bignonia Radicans. Ash-Leaved

 Trumpet-Flower.

## Class and Order.

Didynamia Angiospermia.

## Generic Cbaracter.

Cal. 5 -fidus, cyathiformis. Cor. fauce campanulata, 5 -fida, fubtus ventricola. Siliqua 2 -locularis. Sen. membranaceo-alata.

## Specific Charazter and Synonyms.

BIGNONIA radicans foliis pinnatis: foliolis incifis, caule geniculis radicatis. Limn. Syjf. Vegetab. ed. 14. Murr. p. 563 . Ait. Kcw. v. 2. p. 348.
PSEUDO-GELSEMINUM filiquofum. Riv. Mon. 101. PSEUDO-APOCYNUM hederaceum americanum tubulofo flore phoeniceo, fraxini folio. Monf. Hijl. 3. p. 612. f. 15.t.3.f. 1.

It is difficult to afcertain precifely when this beautiful climber was introduced to this country from North-America, its native place of growth; it was evidently cultivated here by Parkinson in 1640 , as in his Th. Botan. he defcribes it minutely, and adds, "this never bore flower with mee, nor " any other that hath it in our country that I could heare of:" we may from hence infer, that at this period it could not have been long or generally cultivated, as the plant blows freely enough at a certain age; Milier fays, in feven or eight yeárs from feed.

The authors who firf defcribed this plant, called it by various names; Parkinson, in criticifing on fome of thefe, is betrayed into an illiberality altogether inconfiftent with his ufual candour and gravity: "neither yet," fays he, " doe I "entitle it Gelfeminum hederaceum Indicum, as that good "French goofe doth, whofe horned name is prefixed to his "worke of great judgement, no doubt to make it bear an "ivy title that hath fo little refemblance thereto ;" alluding to Cornutus, who calls it by that name, and who moft probably meant no more by bederaceum, than the fimilarity which
the plant bore to Ivy in its manner of attaching itfelf to trees, buildings, \&c. and in which he was perfectly juftified.

This deciduous climber is very hardy, and will mount to the fummit of the higheft tree, or fpread over the loftieft wall; hence it is recommended by Mileer for covering buildings which are unfighty: in the months of Auguf and September it puts forth its rich magnificent trumpet-like flowers, in bunches at the extremities of its pendent branches, which produce the moft charming effect imaginable; one of the finelt trees (for fuch it is in reality) that we have feen of this fort, grows againft the houfe of Dr. Leith, near the hofpital, Grecnwich; there is a very old tree of it alfo, at the Apothecaries garden, Chelfea, the ftem of which is the thicknefs of one's wrilt.

It fucceeds beft when trained to the wall of fome building, and fupports itfelf by putting out roots in the manner of Ivy; but thefe roots, as in that plant, do not we believe contribute to its nourifhment: it may alfo be trained up againft the ftems of tall and fomewhat naked trees, and, if managed with tafte and judgment, will make a charming appearance when in flower.
"It is propagated by feeds (which rarely, we believe, or " never ripen with us) but the young plants fo raifed do not "flower in lefs than feven or eight years, therefore thofe which "s are propagated by cuttings or layers from flowering plants " are moft efteemed, becaufe they will flower in two or three "years after planting. The old plants alfo fend out many " fuckers from the roots, which may be taken off, and tranf" planted where they are to remain, for thefe plants will not " tranfplant fafely if they are old.
"The neceffary culture for thefe plants after they are " eftablifhed, is to cut away all the fmall weak fhoots of the "former year in winter, and fhorten the ftrong ones to about " two feet long, that young fhoots may be obtained for flower" ing the following fummer; thefe plants are of long duration. "There are fome in gardens which have been planted more " than fixty years, which are now very vigorous, and produce "flowers in plenty every feafon." Mill. Dict.

The Bignonia radicans minor has by many been confidered as a varicty of the plant here figured, but it differs fo effentially in many particulars, that it feems to be entitled to be regarded as a fpecies; there is an old plant of it and the major growing near together in Chelfea darden, in which we have obferved that the minor is a much fmaller plant, more difpofed to throw out roots from its Rems, infinitely lefs inclined to flower, varying greatly in the form of its leaves and in the fize and colour of its bloffoms, and upon the whole much lefs ornamental and defirable.


# [ 486 ] <br> Syringa Persica. Persian Lilac. 


Clafs and Order.
Diandria Monogynia.

## Generic Charazzer.

Cor. 4 -fida. Capf. bilocularis 3 -valvis fupera.

## Specific Cbarazter and Synonyms.

SYRINGA perfica foliis lanceolatis integris. Linn. Syl. Veg. ed. 14. Murr. p. 57. Ait. Kerv. vol. 1. p. 15. SYRINGA babylonica, indivifis denfioribus foliis. Pluk. Aln. 359. t. 22 2. f. 8.

It is difficult to fay precifely when this charming fhrub, a native of Perfia, now fo generally found in our gardens, and unknown to the older Botanifts, was introduced; Mr. Aiton has afcertained that it was cultivated here in 1658 .

Of this plant, authors defrribe three varieties, one with blue, another with white flowers, and another with divided leaves, the latter confidered by Milifr as a diftinct fpecies, and called by him laciniata, appears to have been the firft known and introduced by the Perfian name of Agem.

The Perfian Lilac is a fhrub of much humbler growth than the common fort, feldom rifing above the height of fix feet; its branches are flender, pliable, and widely extended, frequently bending downward from the weight of the flowers, which are produced from the beginning to the end of May in panicles uncommonly large, and are of a pale purple colour, with an agreeable fcent, going off without producing any perfeet feeds.

May be increafed by fuckers, but in a better manner by layers.
As this fhrub bears forcing extremely well, it is one of thofe principally ufed for decorating windows, \&c. in the fpring of the year.


## Gladiolus Lineatus. Pencilled Corn-Flag. <br> 

Clafs and Order.
Triandria Monogyna.
Generic Charazter.
Cor. 6-partita, ringens. Stamina adfcendentia.
Specific Cbaracter and Synoizym.
GLADIOLUS lineatus corollæ limbo tubo quadruplo longiore, incurvo patente; laciniis ellipticis, extus lineis 3 parallelis, fuprema majore, exterioribus retufis. Salijb. Prod. pug: 40.

> IXIA fqualida $\beta$ Varict. Prizta, foliis ftrictis, laminis ovatooblongis integerrimis bafi concoloribus. Hort. Kew. v. 1. p.61.

The flowers of this Corn-flag are of a delicate ftraw colour, more or lefs tinged with orange, finely and curioufly pencilled with dark lines, which render it as much an object of admiration as brilliancy of colour does fome of the others.

It appears to be a very diftinct fpecies, and is one of thofe lately introduced from the Cape by way of Holland; flowers in May, produces offscis in abundance, and requires the fame treatment as the reft of the genus, grows readily, and blows freely.

Defcr. - Stalk about two feet high, leafy below, above round, fmooth; Leaves about half an inch wide, finooth, marked with one principal midrib; Flowers, five or fix in a fpike, which nods remarkably before they operi, ftraw-coloured, tinged with orange in a greater or lefs degrec, ftrongly and curioufly marked with fine lines, three running parallel to each other down the middle of each fegment, from whence thofe of the fide branch off; on the infide of each of the threc lowermoft fegments near the bafe, is a yellow fpot, uppermoft fegment broader than the reft. Spatha two-leaved, leaves membranous, ribb'd, length of the tube of the corofla, ribs terminating in fhort awns; Stamens much fhorter than the flower; Anthers linear, nearly parallel, bent a little upward, yellowifh, fides dark-coloured; Style length of the famens, trifid, fegments bowed back, dilated at the extremity and vilious.

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## [ 488 ]

## Rhododendron Chamecistus, ThymeLeaved Rhododendron.


Class and Order.
Decandria Monogynia.
Generic Cbarazter.
Cal. 5 -partitus. Cor. fubinfundibuliformis. Stam. declinata. Capf. 5-locularis.

Specific Charazter and Synonyms.

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LEDUM foliis ferpylli ad margines cilii inftar pilofis, flore purpureo. Mich. Gen. p. 22 2. tab. 106.
CHame CISTUS Vili. Cluf. Hijt. 1. p. 76.
CHAM ECISTUS IV. Cluf. Pan. 64.
CHAMECISTUS hirfuta. C. B. Pin. 466.
CHAMERHODODENDRON berberis folio flore amplo rofeo. Gmel. Sibir. 4. p. 126.
CISTUS chamærhododendros foliis confertis ferrea rubigine nitentibus, margine pilofis. Pluk. Alm. 106. tab. 23.f. 4.?

For this very rare and beautiful littie plant we are indebted to Mr. Loddidges, Nurferyman, at Hackney, who raifed feveral of them from feeds fent him ten or twelve years ago, from I aubach, in Auftria, by a friend who gathered them on the extreme tops of the Crain mountains.

It is a plant of very flow growth and difficult culture, which muft always make it a great rarity. It flowers in April, is kept in bog-earth in a fheltered fituation and Northern afpect.

The Ciftus Chamærhododendros of Plukenet is, perhaps, intended for fome other plant, as the leaves of this are perfectly free from any ferruginous appearance.

As, perhaps, few Englifh Botanifts have feen the Rhododendron Chamæciftus in flower, the following defcription may not be unacceptable. It rifes with feveral diffufe branched
ftalks, fcarcely a fpan high, thickly clothed with fmall ovate flefhy leaves, fmooth on each fide, ciliated at the edge; when young, they appear ferrated with a gland-bearing hair to each tooth; but as they grow older they become more flefhy, the notches difappear, and the glands at the extremity of the hairs perifh. The Flower-Stalks about an inch long, hairy with glands, grow three or four together from the extremity of the branch, having two fmall concave bracteæ at the bafe, and bearing each one flower. The Calyx is five-cleft, the fegments conniving, lanccolate-oval. The Corolla of one petal, deeply divided into five fegments, which are ovate, entire, and rotate, of a lively purple colour, fpotted at the bafe. Filaments ten, equal, longer than the corolla, incurved towards the tip, white; Anthers black, attached at the fide; Pollen white. The Germ is hemifpherical, of a green colour ; the Style white, of an equal length or fomewhat exceeding the ftamens; the Stigma fimple and green. The Seed-Veffel we have not feen.



# [489] <br> <br> Spirea Trifoliata. Three-Leaved <br> <br> Spirea Trifoliata. Three-Leaved Spireta. <br>  

Clafs and Order.
Icosandria Pentacynia.

## Generic Cbarazier.

Cal. 5 -fidus. Petala 5. Capf. polyfperma.

## Specific CharaEter and Synonyms.

SPIR ÆA trifoliata foliis ternatis ferratis fubæqualibus, floribus fubpaniculatis. Sp. Plant. 702.
ULMARIA major, trifolia, flore amplo pentapetalo, virginiana. Pluk. alm. 393. t. 236. f.5. Raii Suppl. 330. ULMARIA virginiana trifolia, floribus candidis amplis longis et acutis. Morif. Hif. 3.p. 323 .

To this genus both the flower-garden and fhrubbery are indebted for fome of their chief ornaments. Of the hardy herbaceous fpecies the trifoliata is confidered as one of the moft elegant ; when it grows in perfection it certainly is a moft delectable plant.

It is a native of North America, flowers in June and July, and was cultivated by Mr. Miller, in 175 . Ait. Kew.

Being a plant much coveted, increafing but little, propagated with difficulty, and liable to be loft unlefs planted in a foil and fituation highly favourable to it, it is fcarce in the gardens about London.

It is ufually increafed by parting its roots; poffibly thefe might grow when made cuttings of. Miller fays it is propagated by feeds, which fhould be fown on a fhady border, foon after they are ripe; for if they are fown in the fpring, the plants will not come up till the year after, and many times fail; they will require to be very carefully weeded and attended to.

The beff fituation for this plant is a North border; it loves moillure, and thould be planted in light bog or peat-earth, or a mixture of it and a pure hazel loam.

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# Crotalaria Juncea. Channel'd-Stalk'd 

 Crotalaria.
Clafs and Order.
Diadelphia Decandria.

## Generic CharaEier.

Leguncen turgidum, inflatum, pedicellatum. Filam. connata cum fiffura dorfali.

Specific Clarazater and Synonyms.
CROTALARIA juncea foliis fimplicibus lanceolatis petiolatofefflibus, caule friato. Spec. Pl. 1004. Ait. Kew. 3. p. 18.
CROTALARIA foliis folitariis lanceolatis lanuginofis, petiolis feffilibus, caule ramofo ftriato, flore magno aureo. Trew. Ebret. tab. 47. p. 15. Katou Tandala Cotti. Hort. Malabar. v. 9. p. 47. t. 26.

This annual is a native of the Eaft-Indies; the feeds were brought to Mr. Milier, at Chelfea-Garden, from the coalt of Malabar before 1768, Ait. Kew. It rifes with an angular, rufhy, ftiff ftem, from three to four feet in height, dividing into branches. The leaves are oblong-lanceolate, alternate, covered with foft filvery hairs, which are much diminifhed in number by culture, as we found on comparing a native fpecimen from the coaft of Coromandel, in the poffeffion of Sir Joseph Banks, Bart. The flowers are terminal, and difpofed in racemes, each flower being furnifhed with a fhort peduncle, they are large, of a decp yellow, and refemble thofe of the Spanifh Broom.

Thefe are fucceeded by large turgid pods, containing reniform or kidney-fhaped feeds. This plant requires the treatment of the tan-ftove.


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## [491]

## Gentiana Verna. Vernal Gentian.



Clafs and Order.
Pentandria Digynia.

## Generic Cbarazter.

Cor. 1-petala. Capf. 2-valvis, 1-locularis: Receptaculis 2, longitudinalibus.

Specific Cbaracter and Synonyws.
GENTIANA verna, corolla quinquefida infundibuliformi caulem excedente, foliis radicalibus confertis majoribus. Limn. Spec. Pl. p. $33^{1 .}$

GENTIANA VI. Cluf. Rar. Plant. Hift. Lib. III. p. $35^{15}$
GENTIANA verna. Smith. Flor. Brit. v. 1. p. 285. Englifb Butany', p. 493.

This elegant hardy perennial, a native of the Alps of Switzerland, Auftria, and the Pyremees, hath, as we are informed by Dr. Smith, in his Flora Britannica, been difcovered by Mr. Heaton, on the mountains between Gort and Gallway, in Ireland; and in Teefdale-Foreft, Durham, by the Rev. Mr. Harriman, and Mr. Oliver.

Its flowers have a very agreeable fcent, and will decorate either the open border or rock-work; they appear in April or May, and may be brought forward at leaft fix weeks earlier, by being placed in the greenhoule.

It fucceeds well in a mixture of peat-earth and loam.
The plant from which this figure was made, flowered this fpring at the Botanic-Garden, at Brompton.
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# [ 492 ] <br> Polygala Oppositifolia. OppositeLeav'd Milk-Wort. 



## Clafs and Order.

Diaderphia Octandria.

## Gcneric Character.

Cal. 5 -phyllus: foliolis duobus alæformibus coloratis. Legumere obcordatum, biloculare.

## Specific Cbaracter and Synonym.

POLYGALA oppofitifolia, floribus crifatis racemofis, caule fruticofo pubefcente, foliis oppofitis cordatis acutis feffilibus.
POLYGALA oppofilifolia floribus criftatis, caule fruticofo, foliis oppofitis ovatis acutis. Linn. Mant. 259 -

Of this numerous genus there are many fpecies with fhrubby ftalks, which rife to a confiderable height ; fuch is the prefent plant, which has within thefe few years made its appearance in the greenhoufes about town, and is to be admired for its rarity and fingularity, rather than for its fuperior beauty ; in that refpect it is far eclipfed by the bracteolata.

The Stalk rifes to the height of feveral feet, branching towards the top in a very irregular manner; is round, downy, and of a purple colour ; the Leaves are oppofite, feffile, heartfhaped, pointed, more or lefs bairy, on the old ftems turned downwards ; the Flowers grow in racemes for the moft part, from the fork of the ftalk, are about the fize of thofe of the bracteolata, but lefs brilliant; each Peduncle is furnifhed at its bafe with a triphyllous bractea; the Stamens are eight in number, and the Stigma is remarkably hooked.

It is a native of the Cape, and ufually increafed by cuttings.


## [ 493 ]

## Pelargonium Reniforme. KidneyLeav'd Crane’s-Bill. <br> 

Clafs and Order. Monadelphia Heptandria.

Generic Charazer.
Cal. 5 -partitus: lacinia fuprema definente in tubulum capillarem, nectariferum fecus pedurculum decurrentem. Cor. 5 -petala irregularis. Fil. 10 inequalia :, quorum 3 (raro 5) caftrata. Frucius 5 -coccus, roftratus: roftra fipiralia, introrfum barbata.

## Specific Character.

PELARGONIUM reniforne caule fruticofo: ramis fuperne incraffatis, foliis reniformibus, umbellis fubquadrifloris.

This is one of the rareft of the Geranium tribe with fo many fpecies of which nur greenhoufes, and even our halls and windows, are now decorated. It has appeared in feveral gardens about the metropolis for thefe two years paft, and was, probably, firft raifed from feeds fent from the Cape to the Royal Garden, at Kew, a fource from whence the beauties of Flora are fpread with a bountiful hand through the nation.

It is known in moft of the nurferies by the name which we have adopted, but has not, we believe, been hitherto defcribed or figured.

The beft mode of cultivating this plant is by fowing its feeds, either in the fpring or autumn, in a mixture of peat-earth and loam, as it is not eafily increafed either by cuttings or by parting its roots.

Defcr.-Stalk from two to three feet or more in height, woody, towards the tops of the young branches remarkably thickened; Leaves alternate, ftanding on footftalks, reniform, crenated, flightly fragrant ; Flowers in an umbel from two to four: Petals five, nearly equal, very bright purple, the two uppermoft marked at the bafe with dark fpots or ftreaks, the three lowermoft but little fo; Peduncles upright, villous, with a joint near the bafe; Calyces having four of the leaves reflexed, one upright when the flower is open; Stamens five perfect; Anthers of a pale purple colour.


# [ 494 ] <br> Centaurea Ragusina. Cretan Centaury. 


Clays and Order. Syngenesia Polygamia Frustranea.

## Generic Cbarazter.

Recept. fetofum. Pappus fimplex. . Cor. radii infundibuliformes longiores irregulares.

## Specific CharaEZer and Synonyms.

CENTAUREA ragufina calycibus ciliatis, foliis tomentofis natifidis: foliolis obtufis ovatis integerrimis: exterioribus majoribus. Sp. Pl. 12 go. Ait. Kerv. v. 3. p. 259 .
JACEA cretica lutea foliis cinara. Morif. Hij. 3. p. 141. f. 7. t. 27. f. 22.

JACEA arborea argentea ragufina. Zan. Hijf. 107. t. 43. Mill. Icon. t. 152. f. 1.
STœBE montana nivea capite cardui, fubrotundis foliorum lobis. Barr. Ic. 30 g .

The Centaurea ragufna, a native of the ifle of Candia, and of feveral places on the coafts of the Mediterranean, both in Europe and Africa, was cultivated here in 1714 , by the Duchess of Beaufort, and is now a common greenhoufe plant; it feldom exceeds the height of three feet; its ftalks which are perennial, divide into many branches; the flowers are of a bright yellow colour, they appear in June and July, but the feeds feldom ripen in England: as this plant retains its leaves, which are extremely white all the year, it makes a pretty variety among others. If planted in dry lime rubbifh, Mileer fays, it will bear the cold of our ordinary winters, in the open air.

May be propagated by flips, or by planting the young branches, which do not fhoot up: lower, in a fhady border any time during the fummer; in the autumn thefe may be removed into a warm border, or put into pots to be fheltered in winter.




## [ 495 ]

# Crassula Coccinea. Scarlet-Flowered <br> Crassula. 


Clafs and Order.
Pentandria Pentacynia.
Generic Cbaratier.
Cal. 5-phyllus. Petala 5. Squamu 5, netariferæ ad bafin germinis. Capf. 5 .

Specific Charaiter and Synonyns.
CRASSULA coccinea foliis ovatis planis cartilagineo-ciliatis, bafi connato-vaginantibus. Linn. Sy/f. Vegetab. ed. 14. Murr. p. 304. Mant. 360. Ait. Kew. v. 1. p. 390

COTYLEDON africana frutefcens, flore umbellato coccineo. Comin. Rar. 24. t. 24. Bradl. Succ. 5. p. 7.1. 50.
COTYLEDON africana frutefcens flore carneo amplo. Breyi. Prodr. 3. p. 30. t. 20. f. 1.

We have no doubt but that when this fuperb fpecies of Craffula was firft introduced from the Cape by Prof. Bradiey, of Oxford, in ${ }^{1714}$, it was regarded as a kind of a Merveil de la Nature ; even now that it is common, we fcarcely know any fucculent that is fuperior to it, whether we regard its grandeur, the curious growth of its leaves, or the rich colour of its fcarlet bloffoms, readily produced on plants of a moderate fize.

It flowers during the months of July, Auguft, and September ; is readily propagated by cuttings, and requires the fame treatment as other tender fucculents; Mr. Aiton regards it as a dry ftove plant; in the fummer it fhould be placed in the open air.


# 496 ] <br> Heliophila Arabioides. <br> Club-Pointed Heliophila. 

## 

Clafs and Order. Tetradynamia Siliquosa.

## Generic Cbarazter.

Nectaria duo recurvata verfus calycis bafin veficularem.
Specific Cbarater.
HELIOPHILA arabioides, filiquis teretibus torulofis clavatomucronatis; foliis linearibus carnofis tridentatis fimplicibufque.

This pretty little annual, which is known in feveral of the more curious collections about town, under the name of Heliophila integrifolia, is a native of the Cape of Good Hope, from whence feveral other fpecies of Heliophila have been imported into Europe, all of which, we believe, might be very readily characterifed by the different figure of the filiqua; but for want of a proper attention to this moft effential part, much confufion has arifen in the fyonomy of thofe fpecies which have been already defcribed. The true integrifolia is a much larger plant, with lanceolate leaves all entire; the filiqua is compreffed, which marks it to be a diftinct fpecies. Our plant cannot be referred to any yet defcribed, although in many refpects it refembles what has been figured by Jacouin, as a remarkable variety of integrifolia, in his Icones Rarior. $t$. 506. It differs, however, fo materially, that we cannot venture to quote this figure as a fynonym. It has been, therefore, neceffary to give it a new fpecific name, and we have formed a claracter, which, from a careful infpection of all the fpecies preferved in the Herbarium of Sir Joseph Banks, appears fufficient to diAtinguifh it. The flowers, which are of a very brilliant colour, expand about noon and remain open but a few hours. Our figure was drawn from a plant raifed by Mr. Loddidge, of Hackney. It is to be raifed in the fpring, in the fame manner as other tender annuals.-S.



## Quassia Amara. Bitter Quassia.



> Clafs and Order.

Decandria Monogynia.

## Generic Cbaracter.

Cal. 5 -phyllus. Petala 5. Neętarium 5-phyllum. Pericarpia 5 diftantia, 1-fperma.

## Specific Cbarazter and Synonyms.

QUASSIA anara, floribus hermaphroditis, foliis impari-pinnatis: foliolis oppoficis feffilibus, petiolo articulato alato, floribus racemofis. Linn. Suppleni. p. 235 . Syyt. Veget. Murray, p. 401: Linn. Spec. Plant. edit. Willdenow. tom. 2. p. 567 .

This beautiful frrub is a native of Surinam, and both in its foliage and long racemes of fire fcarlet flowers growing from the extremities of the branches, is a great ornament to the ftove. It bloffoms tolerably freely, and continues flowering during great part of the fummer. The corolia is never fully expanded, but the petals having a fpiral twift, they curl round one another and open in an irregular manner. All the figures of this plant hitherto publified we believe have been drawn from dried fpecimens, and the corolla being expanded by art, a flower has been made totally different from the natural appearance. The bark, the wood, and the root, are all intenfely bitter, and may on that account be ufeful in medicine; but the Lignum Quaffix, which has been imported in confiderable quantities, not only for pharmaceutical purpofes, but as a fubftitute for hops, though formerly fuppofed to belong to this fpecies, we are informed by later obiervers is the product of another, the Quafia excelfa. As a native of a warm climate, it requires the common treatment of flove plants. Is increaled by cuttings in the early part of the year. It was moft probably introduced fince the publication of the Hortus Kervenfis in 1789 , as no mention is made of it in that work.

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## [ $49^{8}$ ]

Achillea Tomentosa. Woolly Milfoil.


Clafs and Order.
Syngenesia Polygamia Superflua,

## Generic Cbaracter.

Cal. ovatus, imbricatus, fquamis ovatis; fofculi radii 5 vel plures; receptaculum paleaccum elevatum.

> Specific Cbarater and Synonyms.

ACHILLEA tomentofa foliis pinnatis hirfutis: pinnis linearibus dentatis. Linn. Sp. Pl.ed. 3.1264. Ait. Kew. v. 3. p. 239 .

MILLEFOLIUM tomentofum luteum. Baub. Pin. 140.
MILLEFOLIUM luteum. Ger. Herb. 945. f. 1. emac. 1073.f. 1.

This hardy perennial is a fpecies of Milfoil, a plant of very humble growth; its leaves, which are woolly, though probably much lefs fo in gardens than in their wild ftate, fpread on the ground and mat together ; its ftalks feldom rife above the height of nine inches, and produce on their fummits umbels of flowers of a fine yellow colour, which continue during moft of the fummer.

Grows naturally in Spain, the South of France, the Valais, and Italy; was cultivated in the Oxford Garden in 1658.

It is well adapted to the borders of the fmall flower garden, or to place on rock-work ; is a plant of very ready growth, and increafed by parting its roots in the Autumn or Spring.


# [ 499 ] <br> <br> Allium Moly. Yellow Garlic or Moly. 

 <br> <br> Allium Moly. Yellow Garlic or Moly.}

## 

Clafs and Order.
Hexandria Monogynia.
Generic Cbarazter.
Cor. 6 partita patens, fpatha multiflora. Umbella congefta. Capf. fupera.

Specific Charazter and Synonyms.
ALLIUM Moly fcapo nudo fubcylindrico, foliis lanceolatis feffilibus, umbella faftigiata. Sp. Pl. 432. Ait. Kero: 428.
ALLIUM Moly latifolium luteum odore allii. Bauh. Pin. 75. ALLIUM Moly montanum latifolium, flavo flore. Cluf. App. Alt.
MOLY montanum latifolium luteo flore. The yellow Moly. Park. Parad. p. 144. pl. 143. fig. 7.

Of this very numerous genus there are but few fpecies with yellow flowers; this plant was therefore, no doubt, cultivated at firft as much for its fingularity as its beauty: Parkinson figures and defcribes it in his Parad. terr. as he does many others of the fame tribe, in which he appears to have been very rich; he obferves that when the plant comes up with a fingle leaf, it produces no flowers, but when it has two it does. Mileer fays the Yellow Moly has fome beauty in the flowers, and deferves a place in borders where few better things will thrive.

Grows wild in Hungary, on Mount Baldo, about Montpellier, and in the Pyrenees; is a hardy perennial, growing to the height of ten or twelve inches, producing its flowers in umbels in the month of June; according to Lobel was cultivated here by Edward Lord Zouch in 1604 .

For the moft part it increafes plentifully, both by roots and feeds; but in fome fituations its bulbs are liable to be greatly injured by the wire-worm, the larva or maggot of an clater.



## [ 500 ]

## Agapanthus Umbellatus. African Agapanthus, or Blue Lily.



> Clafs and Order.

## Hexanerla Monogynia.

Generic Charader.

Cor. infera, infundibuliformis, hexapetaloidea regularis.

> Specific Charazter and Synonyms.

AGAPANTHUS umbellatus. Ait. Kerw. v. 1. p. 414. 50g. L'Herit. Sert. 17.
CRINUM africanum. Linn. Sp. p. 419.
POL.YANTHES floribus umbellatis. Linn. Vir. Cliff. 29. Hort. 126. Mill. fig. 8. 10.
TULBAGHIA Heij. Brunfv. 10. n. 6.
MAUHLIA africana. Dabl. Obf. Bot. 26.
HYACINTHUS africanus tuberofus, fl. cæruleo umbellato. Breyn. prod. 1. $25^{\circ}$

Agapantbus is a name firf given to this genus of plants, of which there is only one fpecies, in the Hort. Kew. of Mr. Aiton. Linneus and Gcertner have confidered it as a Crinum, and it will be feen by the fynonyms that it has had a variety of names impofed on it by other authors.

It is a native of the Cape, and no novelty in this country, having been cultivated in the Royal Garden at Hampton-Court in $169^{2}$ : it is now found in mof collections of green-houfe plants: the nurferymen make two varieties of it, a major and a minor.

Its root is not bulbous, but compofed of many thick flefhy fibres; the leaves are thick, about a foot long, and near an inch broad; the flowering ftem, which is naked, rifes to the height of two or three feet, and produces on its fummit a magnificent
magnificent umbel of fine blue flowers, which come forth irregularly during the whole of the year, but more frequently from Auguft to January.

This plant only requires protection from froft and moifture, it fhould not, therefore, have any artificial warmth in winter, at leaft no more than is neceffary to fecure it from froft (unlefs our object be to force it, which it bears admirably well) and muft be fet in the open air in fummer: at the clofe of the year, when coming into bloom, it will require the fhelter of the green-houfe.

Is propagated by offsets, which come out from the fide of the old plant, and may be taken off the latter end of June.

It will not grow and flower in perfection unlefs it have plenty of pot room, and the fpace that it thus occupies is often more than a fmall green-houfe can afford.


# Aletris Capensis. Waved-Leaved <br> Aletris. 



## Clafs and Order.

Hexandria Monogynia.

## Generic Cbaracter.

Cor. infundibuliformis. Stamina inferta laciniarum bafi. Capf. 3-locularis.

> Specific Cbaracter and Synonyms.

ALETRIS capenfis, acaulis, foliis lanceolatis undulatis, fpica ovata, floribus nutantibus. Linn. Spec. Plant.p. 456. Syft. Veget. Murray, p. 336. Burn. Prod. 10.
VELTHEIMIA viridifolia, foliis lanceolatis plicato-undulatis obtufis, dentibus limbi rotundatis rectis. Linn. Spec. Plant. edit. Willdenow. tom. 2. p. 181. Facq. Hort. Schoenb. 1. p. $4^{1}$ t. 78.

The genus Aletris, as eftablifhed by Linneus, has, by Gleditsch, in the Berlin Tranfactions for 1771, been divided, and a new genus conftructed under the name of Veltheimia, to which this plant belongs. But although this alteration has been adopted by Willdenow, in his edition of the Spec. Plant. of LinNÆus, we neverthelefs adhere to the old name, by which it has been long known in our gardens, efpecially as we have had no opportunity of examining with care the capfules of the different fpecies, from fome difference in which the diftinction is chiefly drawn. It is a native of the Cape of Good Hope ; flowers from November to April. So ornamental a plant would probably be more common, were it more eafily propagated; but it neither readily perfects its feeds, nor is it eafily increafed by its roots. Mifler directs the bulbs to be planted in pots filled with light earth, that they may be fheltered in October and through the winter, and in a dry, airy glafs cafe, and fparingly watered, till May, when they may be placed abroad in a fheltered fituation, and may be frequently watered in warm weather. Introduced in 1768 . Ait. Kew.

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## [502]

# Heliconia Psittacorum. Parrot-Beaked Heliconia. 


Clafs and Order.
Pentandria Munogynia.
Generic Cbarazter.
Spathx. Cal. o. Cor. tripetala. Nectariun diphyllum. Pericarp. tricoccon. Sem.folitaria.

## Specific Charazter and Synonyms.

HELICONIA Pfittacorum glabra, foliis lanceolatis ellipticis acuminatis, fpathis erectis lanceolatis. Bank's M/s.
HELICONIA Pfittacorum foliis caulinis bafi rotundatis, fpadice terminali flexuofo, fpathis lanceolatis, ncctario lanceolato concavo integro. Szuariz. Ob. 98. -

This beautiful ftove plant is a native of Jamaica, growing in the mountains, in places cleared of wood, and in this fituation acquires the ftature of eight feet, with leaves proportionally large. With us it rifes about three feet, with a ftraight round polifhed fiern, naked at the upper part and clothed below with fmooth fhining leaves, alternate lanceolateelliptic acuminated many-nerved, with membranaceous footftalks fheathing the ftem. At a more advanced flage than that at which our drawing was taken, the top of the fem becomes flexuous or zig-zag, and from each bend there grows an erect lanceolate concave fpatha, within which the flowers grow in clufters upon fhort peduncles, thefe remain clofed during the function of flowering, opening only juft before they fall. The Corolla, properly feaking, is monopetalous, the whole falling off in one piece ; if carefully examined it divides into five fegments, the three outermoft of which are ufually defcribed as the three petals of the corolla; the two innermoft form what,
what, in this family of plants, Linneus calls the nectary. The two fuperior fegments of the corolla are nearly linear, and are firmly attached above half way along the back of the netary; the lower one is like the upper, but more deeply grooved, embracing the edges of the nectary, from which it feparates nearly to the bafe. The Nectary confifts chiefly of one boat-flaped fharp-pointed fegment, the edges of which are folded together, enclofing the ftamens and ftyle, and opening only a little way below the point to allow of the exit of the anthers and figma: within this is likewife included, quite concealed from the eye, the fecond fegment of the nectary, which is very fmall, fpatulate, fomewhat concave, and is attached at its back to the lower part of the inferior fegment of the corolla; this fmall part is common to the genus and alfo to Strelitzia, and is fuppoled by Jussieu to be the rudiment of a fixth ftamen. The Stamens are five. The Filaments, which are the length of the nectary, are inferted at its extreme bafe, and are curved at their lower end. The Anthers are formed in a fingular manner: the filament is expanded into a membrane at the upper part, and the edges being doubled in, contain within this fold a white pollen of a large fize. The Germen is obtufely three-cornered, contains three cells, and one feed in each cell. The Style is the length of the ftamens. The Stigma fmall, downy, and hooked.

Our plant appears to be the fame as that defcribed by Swaktz, but perhaps differs from the Heliconia Pfittacorum of the Supplementum Plantarun. Could it be fatisfactorily determined that the two fpecies are diffinct, this name, by right of priority, belongs to the other, and our's ought to have a new one; but from the many errors in the work of the younger Linneus, we are led to miftruft his defcription: until, therefore, the whole genus thall be better underftood, we think it right to retain the name, as adopted by Swartz, rather than to run the rifk of increafing the confufion by changing it.

Our drawing was made from a plant which flowered in Auguit 1800 , amid? a geeat variety of beautiful and rare exorics, in the fuperb collection of E. D. WOODFORD, Efq. al Vauxhall *.

It is increaled by offsets from the roots, and requires a treatment fimilar to the Strelitzia.-S.

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# [503] <br> <br> Calycanthus Floridus. Carolina <br> <br> Calycanthus Floridus. Carolina Allspice. 

 Allspice.}

## 

Clafs and Order. Icosandria Polygynia.

## Generic CbaraEter.

Cal. 1-phyllus, urceolatus, fquarrofus: foliolis coloratis. Cor. calycina. Styli plurimi ftigmate glandulofo. Sem. plurima, caudata intra calycem fucculentum.

## Specific Cbaracker and Synonyms.

CALYCANTHUS floridus petalis interioribus longioribus. Linn. Sp. Pl. ed. 3. p. 718. Ait. Kew. v. 2. p. 220.

BUTNERIA anemones flore. Dubam. arb. 1. p.114. t. $45^{-}$ BASTERIA foliis ovatis acuminatis, caule fruticolo. Mill. Dict. t. 60.
BEURERIA petalis coriaceis oblongis, calycis foliolis reflexis. Ebret. Diet. t. 13.
ERUTEX corni foliis, floribus inftar anemones ftillatæ, petalis craffis rigidis colore fordide rubente, cortice aromatico. CateJb. Carol. 1. p. $4^{6 .}$. $.4^{6}$.

The Calycantbus floridus is a fpreading, decidunus, hardy Thrub of low growth, feldom rifing above the height of four or five feet, producing numerous flowers from May to Auguf, fingular in their form, colour, and ficent, the latter Mr. Mileer defcribes as difagreeable, contrary to the general opinion; the bark has a very ftrong aromatic odour, whence the inhabitants of Carolina gave it the title of Allfpice; it varies in the form of its leaves, hence two varieties of it are enumerated in the Hort. Kerw. of Mr. Aiton, 1 foliis oblongis, 2 foliis fubrotundo-ovatis.
" Mr. Catesby, who firt introduced it into the Englifh " gardens in 1726 , procured it from the country, fome hundred " miles on the back of Charles-Town in Carolina. It was " very fcarce here till about the year 1757, when many plants "were brought from Carolina, having been greatly increafed " in the gardens near Charles-Town." Mill. Dict.

Mr. Mileer gave it the name of Bafteria, in honour of his very worthy friend Dr. Job Baster, under which name it is to be found in his own editions of his Dictionary.
" It is ufually propagated by laying down the young branches " in Autumn, which will take root in one year, before which " time they fhould not be tranfplanted; when taken from the " mother plant they fhould be fet where they are intended to "remain, for they do not bear tranfplanting well after they " are grown to any fize; when the branches are laid they " fhould be covered yearly with rotten tan to keep out the "froft; when the layers are tranfplanted the ground fhould " be covered with mulch, to prevent its becoming too dry, " and watered in dry weather, but not too abundantly." Mill. Dič.


## [504]

## Geranium Argenteum. Silver-Leav’d Crane's-Bill.


Clafs and Order.
Monadelphia Decandria.

## Generic Cbarazter.

Cal. 5-phyllus. Cor. 5-petala, regularis. Neci. glandulæ 5melliferæ, bafi longiorum filamentorum adnatæ. Fructus 5 -coccus roftratus ; roftra fimplicia nuda (nec fpiralia nec barbata).

Specific Charazter and Synonyms.
GERANIUM argenteum pedunculis bifloris, foliis fubpeltatis feptempartitis trifidis tomentofo fericeis, petalis emarginatis. Limn. Syy. Veget. ed. 14. Murr. p. 617. Sp. Pl. ed. 3. p. 954.

GERANIUM argenteum alpinum. Baub. Pin. 318.
GERANIUM argenteum montis baldi. Baub. Hif. 3 p. 474 .

This extremely rare, beautiful, and hardy fpecies of Geranium, we obtained a few years fince of Mr. Lovdiges, Nurferyman, of Hackney, who we believe was the firt that introduced it from Germany. It is one of the many curious plants found on the fummit of Mount Baldus, celebrated in the annals of Botany for its choice vegetable productions.

It is diftinguifhed from all our other hardy Geraniums by its filvery foliage; its flowers are large, and extremely delicate; taken altogether, when it grows and bloffoms in perfection, it may be regarded as one of the mof defirable of the alpine tribes:

It blofloms in June and July, and with us at Brompton has ripened its feeds, though in no great number; from thefe the plant may be raifed, as alfo by parting its roots, but the former is the preferable mode.

It fucceeds beft kept in a pot of light fandy bog earth, taking care that it does not fuffer through want of water in fummer, nor from having too much in the winter; we need fcarcely add, that fo rare a plant, growing naturally in fo pure an atmofphere, requires, as it deferves, more than ordinary care to preferve it.


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[^1]:    * It flowered likewife at the fame time at James Robinson's, Efq. at Stockwell.

